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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Bandman et al.

Title: HUMAN EXTRACELLULAR MATRIX PROTEINS

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Official Draftsman

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Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWINGS

Sir:

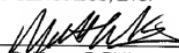
Transmitted herewith are Figure(s) 1A, 1B, 1C, 1D, 1E, 1F, 1G, 2A, 2B, 2C, 2D, 2E, 3A, 3B, 4A, 4B, and 4C, as seventeen (17) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

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If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted,

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CCA	AGA	TG	TG	TGA	GGA	GTC	TAG	CCA	GTT	GGT	GAG	CGC	TGT	AAT	CTG	AAC	CAG
9	18							27	36			45				54	
CTG	TGT	CCA	GAC	TGA	GGC	CCC	ATT	TGC	ATT	TAA	CAT	ACT	TAG	AAA	ATG	AAG	
63		72			81				90			99			108		
TGT	TCA	TTT	TTA	ACA	TTC	CTC	CAA	TTG	GTT	TAA	TGC	TGA	ATT	ACT	GAA	GAG	
117		126			135			144			153			162			
GGC	TAA	GCA	AAA	CCA	GGT	GCT	TGC	GCT	GAG	GGC	TCT	GCA	GTC	GCT	GGG	AGG	ACC
171		180			189			198			207			216			
CCG	GCG	TCC	CCG	TGT	CCT	CTC	CAC	GAC	TCG	CTC	GGC	CCC	TCT	GGA	ATA	AAA	
225		234			243			252			261			270			
CAC	CCG	CGA	GCC	CCG	AGG	GCC	CAG	AGG	AGG	CCG	ACG	TGC	CCG	AGC	TCC	TCC	GGG
279		288			297			306			315			324			
GGT	CCC	GCC	CGC	GAG	CTT	TCT	TCT	CGC	CTT	CGC	ATC	TCC	TCC	TCG	CGC	GTC	TTC
333		342			351			360			369			378			
GAC	ATG	CCA	GGA	ATA	AAA	AGG	ATA	CTC	ACT	GTT	ACC	ATT	CTG	GCT	CTG	TGT	CTT
M	P	G	I	K	R	I	L	T	V	T	I	L	A	L	C	L	

FIGURE 1A

	441	450	459	468	477	486
CCA AGC CCT GGG AAT GCA CAG GCA CAG TGC ACG AAT GGC TTT GAC CTG GAT CGC	P S P G N A Q A Q C T N G F D L D R					
CAG TCA GGA CAG TGT TTA GAT ATT GAA TGC CGA ACC ATC CCC GAG GCC TGC	Q S G Q C L D I D E C R T I P E A C					
CGA GGA GAC ATG ATG TGT AAC CAA AAT GGC GGG TAT TTA TGC ATT CCC CGG	R G D M M C V N Q N G G Y L C I P R					
ACA AAC CCT GTG TAT CGA GGG CCC TAC TCG AAC CCC TAC TCG ACC CCC TAC TCA	T N P V Y R G P Y S N P Y S T P Y S					
GGT CCG TAC CCA GCA GCT GCC CCA CCA CTC TCA GCT CCA AAC TAT CCC ACG ATC	G P Y P A A P P L S A P N Y P T I					
TCC AGG CCT CTT ATA TGC CGC TTT GGA TAC CAG ATG GAT GAA AGC AAC CAA TGT	S R P L I C R F G Y Q M D E S N Q C					
GTT GAT GTG GAC GAG TGT GCA ACA GAT TCC CAC CAG TGC AAC CCC ACC CAG ATC	V D V D E C A T D S H Q C N P T Q I					

FIGURE 1B

	819	828	837	846	855	864
TGC ATC AAT ACT GAA GCG GGG TAC ACC TGC TCC TGC ACC GAC GGA TAT TGG CTT	C I N T E G Y T C S C T D G Y W L					
873	882	891	900	909	918	
CTG GAA GGC CAG TGC TTA GAC ATT GAT GAA TGT CGC TAT GGT TAC TGC CAG CAG	L E G Q C L D I D E C R Y G Y C Q Q					
927	936	945	954	963	972	
CTC TGT GCG AAT GTT CCT GGA TCC TAT TCT TGT ACA TGC AAC CCT GGT TTT ACC	L C A N V P G S Y S C T C N P G F T					
981	990	999	1008	1017	1026	
CTC AAT GAG GAT GGA AGG TCT TGC CAA GAT GTG AAC GAG TGT GCC ACC GAG AAC	L N E D G R S C Q D V N E C A T E N					
1035	1044	1053	1062	1071	1080	
CCC TGC GTG CAA ACC TGC AAC ACC TAC GGC TCT TTC ATC TGC CGC TGT GAC	P C V Q T C V N T Y G S F I C R C D					
1089	1098	1107	1116	1125	1134	
CCA GGA TAT GAA CTT GAG GAA GAT GGC GTT CAT TGC AGT GAT ATG GAC GAG TGC	P G Y E L E E D G V H C S D M D E C					
1143	1152	1161	1170	1179	1188	
AGC TTC TCT GAG TTC CTC TGC CAA CAT GAG TGT GTG AAC CAG CCC GGC ACA TAC	S F S E F L C Q H E C V N Q P G T Y					

FIGURE 1C

1197	1206	1215	1224	1233	1242
TTC TGC TCC TGC CCT CCA GGC TAC ATC CTG CTG GAT GAC AAC CGA AGC TGC CAA					
F C S C P P G Y I L L D N R S C Q					
1251	1260	1269	1278	1287	1296
GAC ATC AAC GAA GAA TGT GAG CAC AGG AAC CAC ACG AAC CTG CAG CAG AGC TGC					
D I N E C E H R N H T C N L Q Q T C					
1305	1314	1323	1332	1341	1350
TAC AAT TTA CAA GGG GGC TTC AAA TGC ATC GAC CCC ATC CGC TGT GAG GAG CCT					
Y N L Q G G F K C I D P I R C E E P					
1359	1368	1377	1386	1395	1404
TAT CTG AGG ATC AGT GAT AAC CGC TGT ATG TGT CCT GCT GAG AAC CCT GGC TGC					
Y L R I S D N R C M C P A E N P G C					
1413	1422	1431	1440	1449	1458
AGA GAC CAG CCC TTT ACC ATC TTG TAC CGG GAC ATG GAC GTG GTG TCA GGA CGC					
R D Q P F T I L Y R D M D V V S G R					
1467	1476	1485	1494	1503	1512
TCC GTT CCC GCT GAC ATC TTC CAA ATG CAA GCC ACC CGC TAC CCT GGG GCC					
S V P A D I F Q M Q A T T R Y P G A					
1521	1530	1539	1548	1557	1566
TAT TAC ATT TTC CAG ATC AAA TCT GGG AAT GAG GGC AGA GAA TTT TAC ATG CGG					
Y Y I F Q I K S G N E G R E F Y M R					

FIGURE 1D

Q	T	G	P	I	S	A	T	L	V	M	T	R	P	I	K	G	P
1575	1584	1593	1602	1611	1620												
CAA ACG GGG CCC ATC ACT	GCC ACC CTG CTG GAA ATG ACA CGC CCC ATC AAA GGG CCC																
R E I Q L D M T V N T V I N F	1629	1638	1647	1656	1665	1674											
AGA GGC AGC TCC GTG ATC CGA CTG CGG ATA TAT GTG TCG CAG TAC CCA TTC TGA																	
R G S V I R L T Y V S Q Y P F	1683	1692	1701	1710	1719	1728											
GCC TCG GGC TGG AGC CTC CGA CGC TGC CTC TCA TTG GCA CCA AGG GAC AGG AGA																	
AGA GAG GAA ATA ACA GAG AGA ATG AGA CAG ACA CAG TTA GGC ATT TCC TGC																	
TGA ACG TTT CCC CGA AGA GTC AGC CCC GAC TTC CTG ACT CTC ACC TGT ACT ATT																	
GCA GAC CTG TCA CCC TGC AGG ACT TGC CAC CCC CAG TTC CTA TGA CAC AGT TAT																	
CAA AAA GTA TTA TCA TTG CTC CCC TGA TAG AAG ATT GTT GGT GAA TTT TCA AGG	1899	1908	1917	1926	1935	1944											
	1953	1962	1971	1980	1989	1998											

FIGURE 1E

2007	CCT	TCA	GTT	TAT	TTC	CAC	TAT	TTT	CAA	AGA	AAA	TAG	ATT	AGG	TTT	GCG	GGG	GTC	2052	
2061	TGA	GTC	TAT	GTT	CAA	AGA	CTG	TGA	ACA	GCT	TGC	TGT	CAC	TTC	TTC	ACC	TCT	TCC	2106	
2115	ACT	CCT	TCT	CTC	ACT	GTC	TTC	TTA	CTG	CTT	TGC	AAA	GAC	CCG	GGA	GCT	GGC	GGG	GAA	2160
2169	CCC	TGG	GAG	TAG	CTA	GTT	TGC	TTT	TG	CGT	ACA	CAG	AGA	AGG	CTA	TGT	AAA	CAA	2214	
2223	ACC	ACA	GCA	GGA	TCC	AAG	GGT	TTT	TAG	AGA	ATG	TGT	TTC	AAA	ACC	ATG	CCT	GGT	2268	
2277	ATT	TTC	AAC	CAT	AAA	AGA	AGT	TTC	AGT	TGT	CCT	TAA	ATT	TGT	ATA	ACG	GTT	TAA	2322	
2331	TTC	TGT	CAT	TTT	GAG	TAT	TTT	TAA	AAA	ATA	TGT	CGT	AGA	ATT	CCT	TCG			2376	
2385	AAA	GGC	CTT	CAG	ACA	CAT	GCT	ATG	TTC	TGT	CTT	CCC	AAA	CCC	AGT	CTC	CTC	TCC	2430	
2439	ATT	TTA	GCC	CAG	TGT	TTT	TGA	GGA	CCC	CTT	AAA	ATT	CTT	GCT	TTC	TTT	AGA	ATT	2484	

FIGURE 1F

FIGURE 1G

2493 2502 2511 2520 2529 2538
TTT ACC CAA TTG GAT TGG AAT GCA GAG GTC TCC AAA CTG ATT AAA TAT TTG AAG
2547
AGA AAA AAA AAA

TG	GGT	GCA	AGC	TCA	CAA	CCG	TAA	CAG	CCA	CCA	GAC	AAG	CCT	CAG	TGG	CCG	GCC
	9	18	27	36	45	54											
CTT	CAC	ATC	CAG	ACT	TGC	CTG	AGA	GGA	CCC	ACC	TCT	GAG	TGT	CCA	GTG	GTC	AGT
	63	72	81	90	99	108											
TGC	CCC	AGG	ATG	GGG	ACC	ACA	GCC	AGA	GCA	GCC	TTC	GTC	TTG	ACC	TAT	TTG	GCT
M	G	T	T	A	R	A	A	L	V	L	T	Y	L	A			162
GTT	GCT	TCT	GCC	TCT	GAG	GGA	GGG	TTC	ACG	GCT	ACA	GGA	CAG	AGG	CAG	CAG	CTG
V	A	S	A	A	S	E	G	G	F	T	A	T	G	Q	R	Q	L
AGG	CCA	GAG	CAC	TTT	CAA	GAA	GGT	GGC	TAC	GCA	GCT	CCC	CCC	TCC	CCA	CCC	CTA
R	P	E	H	F	Q	E	V	G	Y	A	P	P	S	P	P	P	L
TCC	CGA	AGC	CTC	CCC	ATG	GAT	CAC	CCT	GAC	TCC	TCT	CAG	CAT	GGC	CCT	CCC	TTT
S	R	S	L	P	M	D	H	P	D	S	S	Q	H	G	P	P	F
GAG	GGA	CAG	AGT	CAA	GTC	CAG	CCC	CCT	CCC	TCT	CAG	GAG	GCC	ACC	CCT	CTC	CAA
E	G	Q	S	Q	V	P	P	S	Q	E	A	T	P	L	Q		378
	279	288	297	306	315	324											
	117	126	135	144	153	162											
	171	180	189	198	207	216											
	225	234	243	252	261	270											
	333	342	351	360	369	378											

FIGURE 2A

	387	396	405	414	423	432
CAG GAA AAG CTG CTA CCT	GCC CAA CTC CCT GCT GAA AAG GAA	GTC CCC TCT GAC CAG CAC	GTT CCC CCT			
Q E K L L P A Q L P A E K E V G P P						
	441	450	459	468	477	486
CTC CCT CAG GAA GCT GTC CCC CTC CAA AAA GAG CTG CCC TCT CTC CAG CAC CCC						
L P Q E A V P L Q K E L P S L Q H P						
	495	504	513	522	531	540
ATG GAA CAG AAG GAA GGA ATG CCA GCT CCA TTT GGG GAC CAG AGC CAT CCA GAA						
N E Q K E G M P A P F G D Q S H P E						
	549	558	567	576	585	594
CCT GAG TCC TGG AAT GCA GCC CAG CAC TGC CAA CAG GAC CGG TCC CAA GGG GGC						
P E S W N A A Q H C Q Q D R S Q G G						
	603	612	621	630	639	648
TGG GGC CAC CGG CTG GAT GGC TTC CCC CCT GGG CGG CCT TCT CCA GAC AAT CTG						
W G H R L D G F P P G R P S P D N L						
	657	666	675	684	693	702
AAC CAA ATC TGC CTT CCT AAC CGT CAG CAT GTG GTA TAT GGT CCC TGG AAC CTA						
N Q I C L P N R Q H V V Y G P W N L						
	711	720	729	738	747	756
CCA CAG TCC AGC TAC TCC CAC CTC ACT CGC CAG GGT GAG ACC CTC AAT TTC CTG						
P Q S S Y S H L T R Q G E T L N F L						

FIGURE 2B

For the first time, we have shown that the *in vitro* growth of *S. enteritidis* is inhibited by the addition of *in vivo* secreted proteins.

GAG ATT	765	774	783	792	801	810
E I G Y S R C	C H C R S H T N R L	C A C G C G A C A A C C G C T A G A G				
C A K L V W E	A M S R F C	T G C C G A T G A G C G A T T C T G G				
S V K T R P H W	C C C C A C T G C T G G T G C	G A G G G G A G G C T G G C G G				
S C F Q E A P Q	C C C C C A C T A C G C C C	T G G A C G C T G G A G G C T G G C G G				
S H Q P D I S G	T C C T C G A G G A A G C C C	T C G C A C T A C G C T C C T C G G				
S H Q P D N I K N	G A T A T T C C T C G G T	C T T G A G C T G C C T T C C T C G G				
P T L D N I K N	A A C A A T C C A T C	A T C T G C C A C C T G A G C G C T C T				
P T L D N I K N	1044	1053	1062	1071	1071	1080
CCC ACA TTG GAC AAT ATC AAG AAC ATC	T G C C A C C T G C A G C G C T C T G C G C	T T C C C T G C G C T C T G C G C				
P T L D N I K N	1098	1107	1116	1125	1125	1134
CCA CGC AAC CTG CCA GCT ACT GAC CCC CTA CAA AGG GAG CTG CTG GCA CTG ATC						
P R N L P A T D P L O R E L L A L						

FIGURE 2C

1143 CAG CTG GAG AGG Q L E R E F Q R C C C R Q G N N H T C

1152 1161 1170 1179 1188
CAG CGC TGC GAG AGG CAG CGC TTC CAG CGC TGC TGC CGC CAG GGG AAC AAT CAC ACC TGT

1197 1206 1215 1224 1233 1242
ACA TGG AAG GCC TGG GAG GAT ACC CTT GAC AAA TAC TGT GAC CGG GAG TAT GCT

T W K A W E D T L D K Y C D R E Y A
1251 1260 1269 1278 1287 1296
GTG AAG ACC CAC CAC CAC TTT GTC CGC CGC CAC CCT CCC AGC CCT ACT CGG GAT

V K T H H H L C C R H P P S P T R D
1305 1314 1323 1332 1341 1350
GAG TGC TTT GCC CGT CGT CCT TAC CCC AAC TAT GAC CGG GAC ATC TTG ACC

E C F A R R A P Y P N Y D R D I L T
1359 1368 1377 1386 1395 1404
ATT GAC ATC GGT CGA GTC ACC CCC AAC CTC ATG GGC CAC CTC TGT GGA AAC CAA

I D I G R V T P N L M G H L C G N Q
1413 1422 1431 1440 1449 1458
AGA GTT CTC ACC AAG CAT AAA CAT ATT CCT GGG CTG ATC CAC AAC ATG ACT GCC

R V L T K H K H I P G L I H N M T A
1467 1476 1485 1494 1503 1512
CGC TGC TGT GAC CTG CCA TTT CCA GAA CAG GCC TGC TGT GCA GAG GAG GAG AAA

FIGURE 2D

1521	1530	TVA ACC TTC ATC AAT GAT CTG TGT GGT CCC CGA CGT AAC ATC TGG CGA GAC CCT	1539	1548	1557	1566
L	T	F	I	N	D	L
C	G	P	R	R	I	W
A	L	C	Y	L	S	D
N	Y	L	R	N	V	E
Q	G	S	T	G	G	Q
K	E	E				
1575	1584	GCC CTC TGC TGT TAC CTG AGT CCT GGG GAT GAA CAG GTC AAC TGC TTC AAC ATC	1593	1602	1611	1620
A	L	C	C	Y	L	S
N	Y	L	R	N	V	P
Q	G	S	T	G	G	
K	E	E				
1629	1638	AAT TAT CTG AGG AAC GTG GCT CTA GTG TCT GGA GAC ACT GAG AAC GCC AAG GGC	1647	1656	1665	1674
N	Y	L	R	N	V	A
Q	G	S	T	G	G	T
K	E	E				
1683	1692	CAG GGG GAG CAG GGC TCA ACT GGA GGA ACA AAT ATC AGC TCC ACC TCT GAG CCC	1701	1710	1719	1728
Q	G	E	Q	G	S	T
K	E	E				
1737	1746	AAG GAA GAA TGA GTC ACC CCA GAG CCC TAG AGG GTC AGA TGG GGG GAA CCC CAC	1755	1764	1773	1782
K	E	E				
1791	1800	CCT GCC CCA CCC ATC TGA ACA CTC ATT ACA AAC ACC CTA AAC ACC TCT TGG ATT TGG TGT	1809	1818	1827	1836
1845	1854	CCT CAT TGT CTA TCT AAT GTC TCA CCC GCA GTG TTT TAA GTG GAT CTTT GGT GCC	1863	1872	1881	1890
1899		CTG GCC CAG G				

FIGURE 2E

1 M P G I K R I L T V T I L A L C L P S P 45517
1 M A T S G V L P G G G F V A S A A A V A GI 458228

21 G N A Q A Q C T N G F D L D R Q S G Q C 45517
21 G P E M Q T G R N N F V I R R N P A D - GI 458228

41 L D I D E C R T I P E A C R G D M M C V 45517
40 - GI 458228

61 N Q N G G Y L C I P R T N P V Y R G P Y 45517
40 - GI 458228

81 S N P Y S T P Y S G P Y P A A A P P L S 45517
40 - - - - - - - - - - - - - - - - P Q R GI 458228

101 A P N Y P T I S R P L I C R F G Y Q M D 45517
43 I P S N P - - S H R I Q C A A G Y E Q S GI 458228

121 E S N Q C V D V D E C A T D S H Q C N P 45517
61 E H N V C Q D I D E C T A G T H N C R A GI 458228

141 T Q I C I N T E G G Y T C S C T D G Y W 45517
81 D Q V C I N L R G S F A C Q C P P G Y Q GI 458228

161 L L E G Q C L D I D E C R Y G - Y C Q Q 45517
101 K R G E Q C V D I D E C T I P P Y C H Q GI 458228

180 L C A N V P G S Y S C T C N P G F T L N 45517
121 R C V N T P G S F Y C Q C S P G F Q L A GI 458228

200 E D G R S C Q D V N E C A T E N P C V Q 45517
141 A N N Y T C V D I N E C D A S N Q C A Q GI 458228

220 T C V N T Y G S F I C R C D P G Y E L E 45517
161 Q C Y N I L G S F I C Q C N Q G Y E L S GI 458228

FIGURE 3A

240	E D G V H C S D M D E C S F S E F L C Q	45517
181	S D R L N C E D I D E C R T S S Y L C Q	GI 458228
260	H E C V N Q P G T Y F C S C P P G Y I L	45517
201	Y Q C V N E P G K F S C M C P Q G Y Q V	GI 458228
280	L D D N R S C Q D I N E C E H R N H T C	45517
221	V R - S R T C Q D I N E C E T T N E - C	GI 458228
300	N L Q O T C Y N L Q O G G F K C I D P I R	45517
239	R E D E M C W N Y H G G F R C Y P R N P	GI 458228
320	C E E P Y L R I S D N R C M C P A E N P	45517
259	C Q D P Y I L T P E N R C V C P V S N A	GI 458228
340	G C R D Q P F T I L Y R D M D V V S G R	45517
279	M C R E L P Q S I V Y K Y M S I R S D R	GI 458228
360	S V P A D I F Q M Q A T T R Y P G A Y Y	45517
299	S V P S D I F Q I Q A T T I Y A N T I N	GI 458228
380	I F Q I K S G N E G R E F Y M R Q T G P	45517
319	T F R I K S G N E N G E F Y L R Q T S P	GI 458228
400	I S A T L V M T R P I K G P R E I Q L D	45517
339	V S A M L V L V K S L S G P R E H I V D	GI 458228
420	L E M I T V N T V I N F R G S S V I R L	45517
359	L E M L T V S S I G T F R T S S V L R L	GI 458228
440	R I Y V S Q Y P F	45517
379	T I I V G P F S F	GI 458228

FIGURE 3B

1	M G T T A R A A L V L T Y L A V A S A A	1621777
1	M G T V S R A A L I L A C L A L A S A A	GI 496120
21	S E G G F T A T G Q R Q L R P E - - -	1621777
21	S E G A F K A S D Q R E M T P E R L F Q	GI 496120
37	H F Q E V G Y A A P P S P P L S R S L P	1621777
41	H L H E V G Y A A P P S L P Q T R R L R	GI 496120
57	M D H P D S S Q O H G P P - F E G Q S Q V	1621777
61	V D H S V T S L H D P P L F E E Q R E V	GI 496120
76	Q P P P S Q E A T P L Q Q E K L L P A Q	1621777
81	Q P P S S P E D I P V Y E E D W P T F L	GI 496120
96	L P A E K E V G P P L P Q E A V P L Q K	1621777
101	N P N V D K A G P A V P Q E A I P L Q K	GI 496120
116	E L P S L Q - - - - - H P	1621777
121	E Q P P P Q V H I E Q K E I D P P A Q P	GI 496120
124	N E - - - Q K E G M P A P F G D Q S H P	1621777
141	Q E E I V Q K E V K P H T L A G Q L P P	GI 496120
141	E P E S W N A A Q O H C Q Q D R S Q G G W	1621777
161	E P R T W N P A R H C Q Q G R - R G V W	GI 496120
161	G H R L D G F P P G R P S P D N L N Q I	1621777
180	G H R L D G F P P G R P S P D N L K Q I	GI 496120
181	C L P N R Q H V V Y G P W N L P Q S S Y	1621777
200	C L P E R Q H V I Y G P W N L P Q T G Y	GI 496120
201	S H L T R Q G E T L N F L E I G Y S R C	1621777
220	S H L S R Q G E T L N V L E T G Y S R C	GI 496120

FIGURE 4A

221	C H C R S H T N R L E C A K L V W E E A	1621777
240	C P C R S D T N R L D C L K L V W E D A	GI 496120
241	M S R F C E A E F S V K T R P H W C C T	1621777
260	M T Q F C E A E F S V K T R P H L C C R	GI 496120
261	R Q G E A R F S C F Q E E A P Q P H Y Q	1621777
280	L R G E E R F S C F Q K E A P R P D Y L	GI 496120
281	L R A C P S H Q P D I S S G L E L P F P	1621777
300	L R P C P V H Q N G M S S G P Q L P F P	GI 496120
301	P G V P T L D N I K N I C H L R R F R S	1621777
320	P G L P T P D N V K N I C L L R R F R A	GI 496120
321	V P R N L P A T D P L Q R E L L A L I Q	1621777
340	V P R N L P A T D A I Q R Q L Q A L T R	GI 496120
341	L E R E F Q R C C R Q G N N H T C T W K	1621777
360	L E T E F Q R C C R Q G H N H T C T W K	GI 496120
361	A W E D T L D K Y C D R E Y A V K T H H	1621777
380	A W E G T L D G Y C E R E L A I K T H P	GI 496120
381	H L C C R H P P S P T R D E C F A R R A	1621777
400	H S C C H Y P P S P A R D E C F A H L A	GI 496120
401	P Y P N Y D R D I L T I D I G R V T P N	1621777
420	P Y P N Y D R D I L T L D L S R V T P N	GI 496120
421	L M G H L C G N Q R V L T K H K H I P G	1621777
440	L M G Q L C G S G R V L S K H K Q I P G	GI 496120
441	L I H N M T A R C C D L P F P E Q A C C	1621777
460	L I Q N M T V R C C E L P Y P E Q A C C	GI 496120

FIGURE 4B

461 [A E E E K L T F I N D L C G P R R N I W] 1621777
480 [G E E E K L A F I E N L C G P R R N S W] GI 496120

481 [R D P A L C C Y L S P G D E Q V N C F N] 1621777
500 [K D P A L C C D L S P E D K Q I N C F N] GI 496120

501 [I N Y L R N V A L V S G D T E N A K G Q] 1621777
520 [T N Y L R N V A L V A G D T G N A T G L] GI 496120

521 [G E Q G S T G G T N I S S T S E P K E E] 1621777
540 [G E Q G P T R G T D A N P A P G S K E E] GI 496120

FIGURE 4C